

SOME COMPANIES ARE FOUNDED ON HARD WORK. OTHERS ARE FOUNDED ON IDEALS. **FS-CURTIS WAS FOUNDED ON BOTH.**

RDS Series Refrigerated Air Dryer

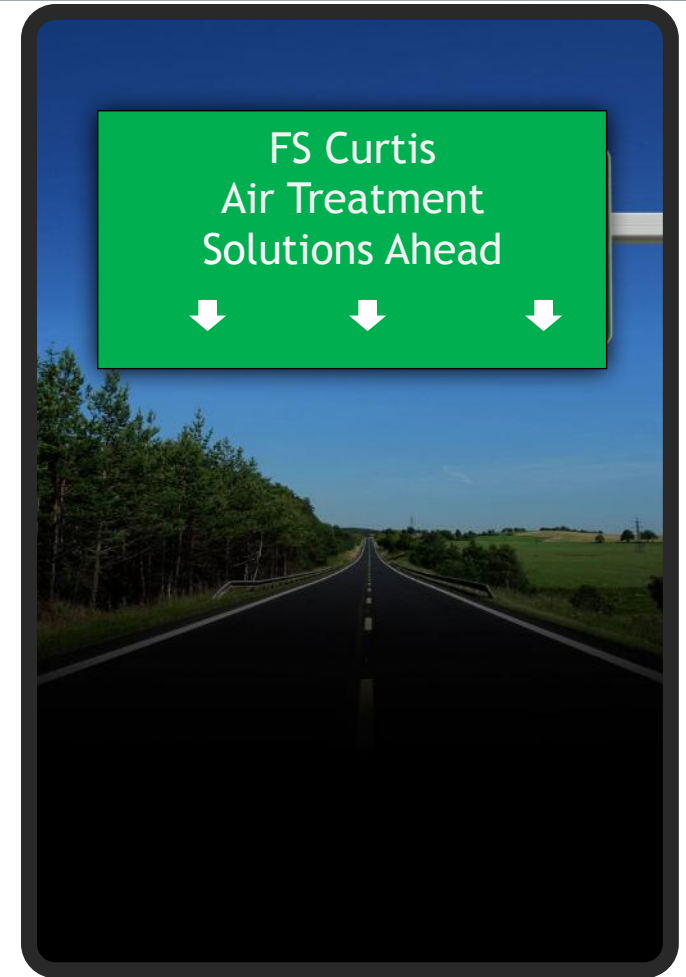
Flows 90 to 12500scfm



RDS TRUE ENERGY SAVING DESIGN

All FS-Curtis RDS Series dryers utilize three industry leading technologies to optimize energy savings and performance.

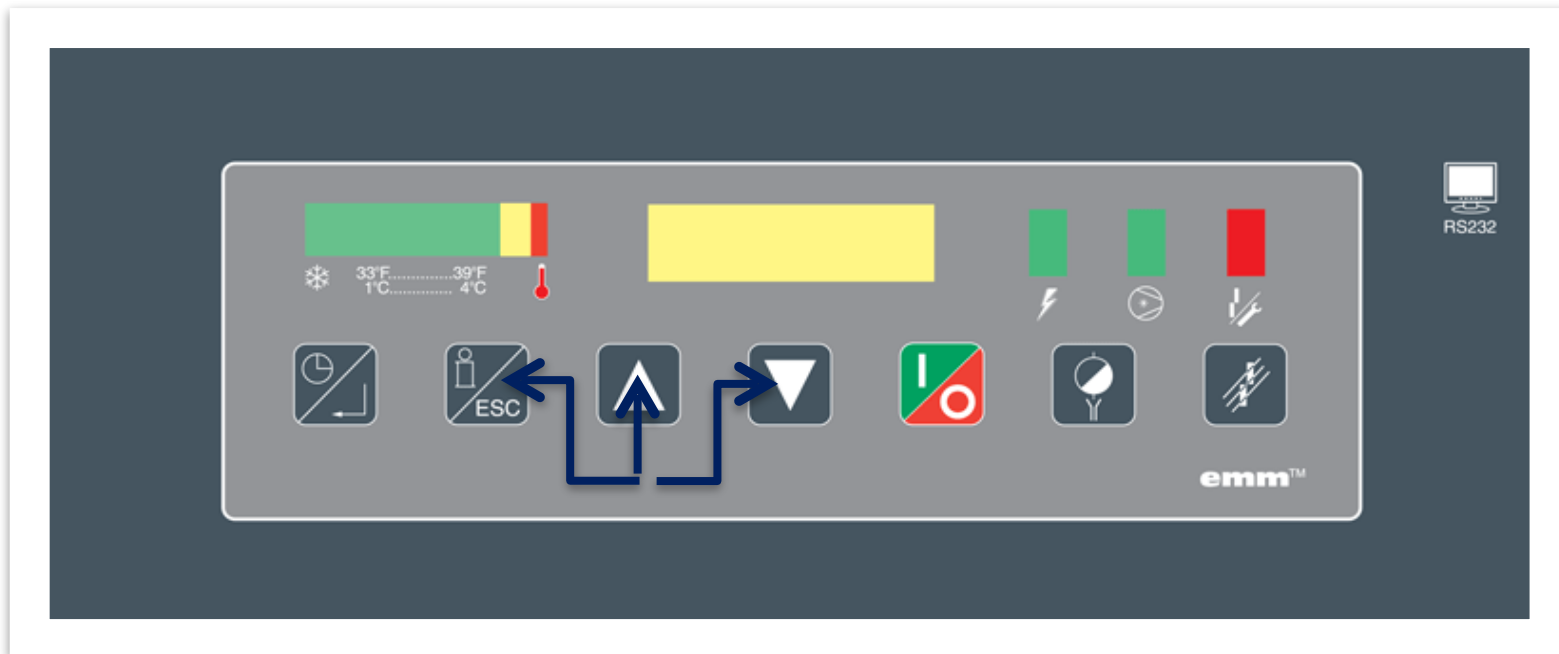
- 1. Demand Smart Energy Management System**
- 2. Stainless Steel Brazed Plate Heat Exchanger**
- 3. Integrated Two Stage Filtration**



DEMAND SMART ENERGY MANAGEMENT SYSTEM

Demand Smart Energy Management System

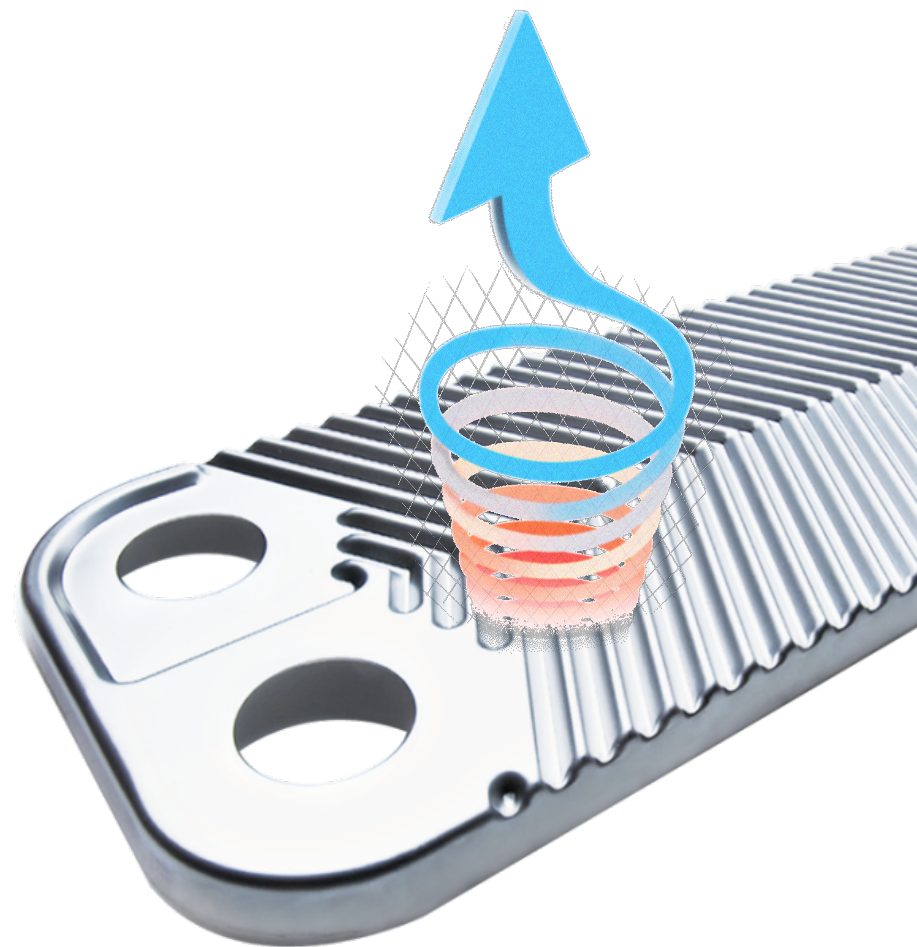
By monitoring the incoming heat load to determine how much cooling energy is required to maintain stable dew point control, this energy-saving control system is able to make precise refrigeration compressor adjustments to match the varying heat loads, maximizing energy savings.



STAINLESS-STEEL BRAZED PLATE HEAT EXCHANGER

Unparalleled performance and reliability

- Brazed plate type heat exchangers provide high heat transfer efficiency, in a compact design
- AISI 316L stainless steel plates for long life and reliability
- Smooth non-fouling, channels promote minimal resistance to flow-this lowers pressure drop which saves energy
- Herringbone geometry stamped into the plates create a helix effect:
 1. No pre-filters required saves initial and maintenance cost
 2. Self cleaning, non-fouling design reduces maintenance



INTEGRATED TWO STAGE FILTRATION



5.0 mg/m³ oil aerosol bulk liquids and 3.0-micron solid particulates are removed by the efficient, effective two-stage filtration system. This means higher air quality and lower operating costs.

- First stage=two stainless-steel orifice tubes provides 10-micron mechanical separation.
- Second stage=an in-depth fiber media captures solid and liquid particles to 3 microns.
- Optional high-efficiency oil removal filter with a corrosion resistant inner and outer cores remove solid particles to 0.01 micron.

BENEFITS OF INTEGRATED FILTRATION

FS Curtis Method

3-4 psid

ISO Quality Class: 3- solids, 5- dew point, 5- oil

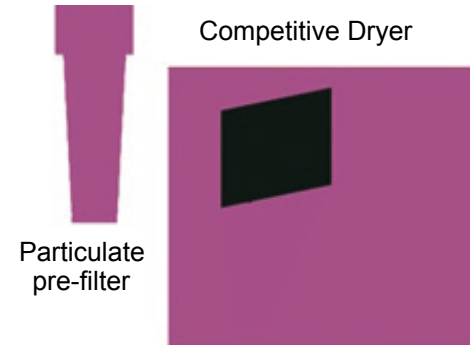


- Integral particulate and oil removal filter/separator also acts as pre-filter to downstream coalescing filters
- Heat exchangers do not require pre-filters!

Pre-Filter Required Method

4 psid + 3 psid = 7 psid

ISO Quality Class 5 dew point
(only rated quality class)



- Demister separator ineffective at removing small particles and oil aerosols
- Aluminum heat exchanger requires a particulate pre-filter

Superior air quality — Lower operating cost — Saves floor space

RDS DIFFERENCES



90-675 SCFM

- Recip compressor w/ glycol reservoir
- R-134A refrigerant
- Demand Smart energy maximizer control optional
- No air loss drain

800-3000 SCFM

- Digital Scroll compressor
- R-404A refrigerant
- Demand Smart energy maximizer control standard
- No air loss drain

3750-12500 SCFM

- Digital Scroll compressor
- R-404A refrigerant
- Demand Smart energy maximizer control optional
- No air loss drain
- Multi station design

OPTIONS

- Nema 4 electrics
- Water-cooled condenser
- Air block and bypass piping
- Integrated cold coalescing filter elements
- Low ambient protection (-10°F)
- Panel mounted gauge package
- Electronic filter monitor (1000-3000 scfm)

